Journal of Luminescence 63 (1995) 349–351
North-Holland

JOURNAL OF
LUMINESCENCE

Author index

Alcalá, R., see Villacampa, B. 63 (1995) 289
Alden, R.G., see Pakhomov, A. 63 (1995) 129
Amry, A.M.A., see Rasheedy, M.S. 63 (1995) 149
Arakawa, Y., see Kanoh, E. 63 (1995) 235
Asai, K., K. Ishigure, H. Shibata, High energy-ion-induced fluorescence from size-quantized CdS particles incorporated into Langmuir–Blodgett films: surface treatment of fine particles 63 (1995) 215

Baltog, I., S. Lefrant, L. Mihut, R.P. Mondescu, Luminescence of PbI_2: Cu^+ 63 (1995) 309
Barnes, W.L., see Brown, R.S. 63 (1995) 1
Berberan-Santos, M.N., see Nunes Pereira, E.J. 63 (1995) 259
Birnbaum, E.R., see Ke, H.-Y.D. 63 (1995) 9
Blanzat, B., see Özen, G. 63 (1995) 85
Blasse, G., see van Schaik, W. 63 (1995) 103
Blasse, G., see Lizzo, S. 63 (1995) 223
Boonyarith, T., see Martin, J.P.D. 63 (1995) 297
Bray, K.L., see Wamsley, P.R. 63 (1995) 31
Brocklesby, W.S., see Brown, R.S. 63 (1995) 1
Brown, R.S., W.S. Brocklesby, W.L. Barnes, J.E. Townsend, Cooperative energy transfer in silica fibres doped with ytterbium and terbium 63 (1995) 1

Cardon, F., see Vercaemst, R. 63 (1995) 19
Cases, R., see Villacampa, B. 63 (1995) 289
Chakravorti, S., see Sarkar, A. 63 (1995) 143
Cina, J.A., see Ungar, L.W. 63 (1995) 345

Denis, J.P., see Özen, G. 63 (1995) 85
Ding, Y.J., see Veliadis, J.V.D. 63 (1995) 55
Dirksen, G.J., see Meijerink, A. 63 (1995) 189
Dirksen, G.J., see Lizzo, S. 63 (1995) 223
Durocher, G., see Zeng, H. 63 (1995) 75

Ekbundit, S., see Pakhomov, A. 63 (1995) 129

Farkas, É., see Sóti, R. 63 (1995) 241, 251
Farkas, Z., see Sóti, R. 63 (1995) 241, 251
Favaro, G., see Romani, A. 63 (1995) 183
Feldbach, E., see Lushchik, A. 63 (1995) 273
Fiermans, L., see Vercaemst, R. 63 (1995) 19
Franklin, A.D., J.R. Prescott, R.B. Scholefield, The mechanism of thermoluminescence in an Australian sedimentary quartz 63 (1995) 317
Frorip, A., see Lushchik, A 63 (1995) 273
Fu, S., see Xia, A. 63 (1995) 301

Gao, Y., see Liang, J. 63 (1995) 41
Gayen, S.K., see Nolas, G.S. 63 (1995) 124
Gilmore, R.C., see Knox, R.S. 63 (1995) 163
Graupner, W., see Stampfl, J. 63 (1995) 117
Grygiel, W., M. Starzak, Eu^{3+} spectroscopy at charged interfaces. Spectral shift, lifetime and energy transfer characteristics for charged latex spheres 63 (1995) 47
Güdel, H.U., see Oetliker, U. 63 (1995) 63
Güdel, H.U., see Hazenkamp, M.F. 63 (1995) 177
Güdel, H.U., see Riedener, T. 63 (1995) 327

Hazenkamp, M.F., H.U. Güdel, U. Kesper, D. Reinen, Comment on: room-temperature line emission at 1.2 μm from chromium-activated barium ortho-titanate [J. Lumin. 59 (1994) 113] 63 (1995) 177
Hilbert, M., see Sóti, R. 63 (1995) 241, 251
Hong, Y., see Xia, A. 63 (1995) 301
Hoshino, K., see Kanoh, E. 63 (1995) 235

Ibragimov, K., see Lushchik, A. 63 (1995) 273
Ishigure, K., see Asai, K. 63 (1995) 215

Kamata, N., see Kanoh, E. 63 (1995) 235
Kanoh, E., K. Hoshino, N. Kamata, K. Yamada, M. Nishioka, Y. Arakawa, Saturation of photoluminescence quenching under below-gap excitation in a GaAs/AlGaAs quantum well 63 (1995) 235
Ke, H.-Y.D., E.R. Birnbaum, Many-body nonradiative energy transfer in a crystalline europium (III) EDTA complex 63 (1995) 9
Kermaoui, A., see Özen, G. 63 (1995) 85
Kesper, U., see Hazenkamp, M.F. 63 (1995) 177
Ketskeméty, I., see Sóti, R. 63 (1995) 241, 251

Khurgin, J.B., see Veliadis, J.V.D. 63 (1995) 55
Knox, R.S., R.C. Gilmore, Perrin's model revisited: a simplified approach to time-dependent optical polarization 63 (1995) 163
Kwok, T.K., Photoluminescence studies of annealing behaviour of the di-carbon radiation-damage centre in crystalline silicon 63 (1995) 155

Laflère, W.H., see Vercaemst, R. 63 (1995) 19
Lefrant, S., see Baltog, I. 63 (1995) 309
Leising, G., see Stampfl, J. 63 (1995) 117
Liang, J., J. Zhao, Y. Gao, The near infrared photoluminescence of epitaxial $Ga_{0.5}In_{0.5}P$ 63 (1995) 41
Lin, C.H., see Pakhomov, A. 63 (1995) 129
Lin, S.H., see Pakhomov, A. 63 (1995) 129
Lizzo, S., A. Meijerink, G.J. Dirksen, G. Blasse, Luminescence of divalent ytterbium in magnesium fluoride crystals 63 (1995) 223
Lushchik, A., E. Feldbach, A. Frorip, K. Ibragimov, F. Savikhin, C. Lushchik, Radiative decay of intrinsic electronic excitations in a wide-gap CsCl crystal 63 (1995) 273
Lushchik, C., see Lushchik, A. 63 (1995) 273

McFarlane, R.A., see Riedener, T. 63 (1995) 327
Manson, N.B., see Martin, J.P.D. 63 (1995) 297
Martin, J.P.D., T. Boonyarith, N.B. Manson, Optical/RF double resonances in $YLiF_4:Ho^{3+}$ 63 (1995) 297
Martinho, J.M.G., see Nunes Pereira, E.J. 63 (1995) 259
Masetti, F., see Romani, A. 63 (1995) 183
Meijerink, A., G.J. Dirksen, Spectroscopy of divalent samarium in $LiBaF_3$ 63 (1995) 189
Meijerink, A., see Lizzo, S. 63 (1995) 223
Middel, W., see van Schaik, W. 63 (1995) 103
Mihut, L., see Baltog, I. 63 (1995) 309
Moharil, S.V., see Patil, R.R. 63 (1995) 339
Mondescu, R.P., see Baltog, I. 63 (1995) 309

Nishioka, M., see Kanoh, E. 63 (1995) 235
Nolas, G.S., V.G. Tsoukala, S.K. Gayen, G.A. Slack, Intra-4f electronic Raman scattering in cerium-doped scandium oxide and barium gadolinium tantalate 63 (1995) 124
Nunes Pereira, E.J., M.N. Berberan-Santos, J.M.G. Martinho, Unidimensional simulation of radiative transport of electronic energy 63 (1995) 259

Oetliker, U., M.J. Riley, H.U. Güdel, Excited state spectroscopy of Ni^{2+} doped chloride and fluoride lattices 63 (1995) 63
Oswald, J., see Ruckschloss, M. 63 (1995) 279
Özen, G., A. Kermaoui, J.P. Denis, X. Wu, F. Pelle, B. Blanzat, Excited state absorption mechanisms of red to UV and blue conversion luminescence in Tm^{3+} doped fluorophosphate glass 63 (1995) 85

Pakhomov, A., S. Ekbundit, C.H. Lin, R.G. Alden, S.H. Lin, Effect of intermolecular vibronic coupling on nonradiative transitions and optical absorption of dimers 63 (1995) 129
Pan, H., see Xia, A. 63 (1995) 301
Patil, R.R., S.V. Moharil, Photoluminescence of Cu^+ in alkali halides 63 (1995) 339
Pelle, F., see Özen, G. 63 (1995) 85
Poelman, D., see Vercaemst, R. 63 (1995) 19
Prescott, J.R., see Franklin, A.D. 63 (1995) 317

Radhakrishnan, J.K., S. Selvasekarapandian, Thermoluminescence and fluorescence emission of CsCl:Sm crystals 63 (1995) 137
Rasheedy, M.S., A.M.A. Amry, On the frequency factor obtained in case of thermoluminescence second order kinetics 63 (1995) 149
Reinen, D., see Hazenkamp, M.F. 63 (1995) 177
Riedener, T., H.U. Güdel, G.C. Valley, R.A. McFarlane, Infrared to visible upconversion in $Cs_3Yb_2Cl_9$: Tm^{3+} 63 (1995) 327
Riley, M.J., see Oetliker, U. 63 (1995) 63
Romani, A., G. Favaro, F. Masetti, Luminescence properties of camphorquinone at room temperature 63 (1995) 183
Rückschloss, M., T. Wirschem, H. Tamura, G. Ruhl, J. Oswald, S. Vepřek, Photoluminescence from OH-related radiative centres in silica, metal oxides and oxidized nanocrystalline and porous silicon 63 (1995) 279
Ruhl, G., see Rückschloss, M. 63 (1995) 279

Sarkar, A., S. Chakravorti, Luminescence studies of 2,2′:6′,2″-terpyridine and its protonated species 63 (1995) 143
Savikhin, F., see Lushchik, A. 63 (1995) 273
Scherf, U., see Stampfl, J. 63 (1995) 117
Scholefield, R.B., see Franklin, A.D. 63 (1995) 317
Selvasekarapandian, S., see Radhakrishnan, J.K. 63 (1995) 137
Sharma, A.K., see Taneja, L. 63 (1995) 203
Shi, J., see Xia, A. 63 (1995) 301
Shibata, H., see Asai, K. 63 (1995) 215
Singh, R.D., see Taneja, L. 63 (1995) 203
Slack, G.A., see Nolas, G.S. 63 (1995) 124
Sóti, R., É. Farkas, M. Hilbert, Z. Farkas, I. Ketskeméty, Investigation of influence of reflection in luminescent layers I. Theoretical analysis 63 (1995) 241

Sóti, R., É. Farkas, M. Hilbert, Z. Farkas, I. Ketskeméty, Investigation of influence of reflection in luminescent layers II. Experimental analysis 63 (1995) 251
Stampfl, J., W. Graupner, G. Leising, U. Scherf, Photoluminescence and UV–VIS absorption study of poly(para-phenylene)-type ladder-polymers 63 (1995) 117
Starzak, M., see Grygiel, W. 63 (1995) 47

Tamura, H., see Rückschloss, M. 63 (1995) 279
Taneja, L., A.K. Sharma, R.D. Singh, Study of photophysical properties of Coumarins: substituent and concentration dependence 63 (1995) 203
Townsend, J.E., see Brown, R.S. 63 (1995) 1
Tsoukala, V.G., see Nolas, G.S. 63 (1995) 124

Ungar, L.W., J.A. Cina, Short time semiclassical dynamics of optical processes in condensed phases [J. Lumin. 58 (1994) 89] (*Erratum*) 63 (1995) 345

Valley, G.C., see Riedener, T. 63 (1995) 327
van Heek, M.M.E., see van Schaik, W. 63 (1995) 103
Van Meirhaeghe, R.L., see Vercaemst, R. 63 (1995) 19
van Schaik, W., M.M.E. van Heek, W. Middel, G. Blasse, Luminescence and energy migration in a one-dimensional Gd^{3+} compound: $Ca_4GdO(BO_3)_3$ 63 (1995) 103
Veliadis, J.V.D., Y.J. Ding, J.B. Khurgin, D.K. Wickenden, Investigation of the temperature dependent recombination processes in periodic four-narrow-asymmetric-coupled-quantum-well structures 63 (1995) 55
Vepřek, S., see Rückschloss, M. 63 (1995) 279
Vercaemst, R., D. Poelman, R.L. Van Meirhaeghe, L. Fiermans, W.H. Laflère, F. Cardon, An XPS study of the dopant's valence states and the composition of $CaS_{1-x}Se_x$:Eu and $SrS_{1-x}Se_x$:Ce thin film electroluminescent devices 63 (1995) 19
Villacampa, B., R. Cases, R. Alcalá, Phonon structure of Cr^{3+} photoluminescence in chromium doped MAF_3 (M = Cd,Ca; A = Rb, Cs) crystals 63 (1995) 289

Wamsley, P.R., K.L. Bray, The effect of pressure on energy transfer in Cr^{3+}:Tm^{3+}:YAG 63 (1995) 31
Wan, T., see Yang, J. 63 (1995) 97
Wickenden, D.K., see Veliadis, J.V.D. 63 (1995) 55
Wirschem, T., see Rückschloss, M. 63 (1995) 279
Wu, X., see Özen, G. 63 (1995) 85

Xia, A., H. Pan, X. Zhang, Y. Hong, S. Fu, J. Shi, J. Zuo, C. Xu, Enhancement of fluorescence and Raman spectroscopies of undoped C_{60} film 63 (1995) 301
Xu, C., see Xia, A. 63 (1995) 301

Yamada, K., see Kanoh, E. 63 (1995) 235
Yang, J., H. Zou, G. Zhou, T. Wan, Study on the co-luminescence effect of Eu–Gd–BM–DPG–Triton X-100 system and its application to the determination of europium 63 (1995) 97

Zeng, H., G. Durocher, Analysis of fluorescence quenching in some antioxidants from non-linear Stern–Volmer plots 63 (1995) 75
Zhang, X., see Xia, A. 63 (1995) 301
Zhao, J., see Liang, J. 63 (1995) 41
Zhou, G., see Yang, J. 63 (1995) 97
Zou, H., see Yang, J. 63 (1995) 97
Zuo, J., see Xia, A. 63 (1995) 301

Journal of Luminescence 63 (1995) 352–353
North-Holland

JOURNAL OF
LUMINESCENCE

Subject index

Absorption
– excited state 85
Absorption spectra 129
Aging 19
Alkali halides 339
Anisotropy 163
Anti-oxidants 75

Charge transfer states 203
– intramolecular 203
Chromium 177
Conjugated polymers 117
Crossluminescence 273
Cr^{3+} 177
Crystal field strength 31
C_{60} film 301
Cu^{+} emission 339

Decay time
– effective nonradiative 55
Defects
– decomposition 155
– reactions 155
Dephasing 163
Depolarization 163
Dimers 129
Dipole–dipole interaction 9
Distortions
– excited state 63
Divalent ytterbium 223
Donor–acceptor pair transition 41
Double resonance 297

Electric dipole 9
Electroluminescence 19
Electron transfer 75
Electron traps 317
Emission spectra 143
Energy level scheme 223
Energy migration 103, 259
Energy transfer 1, 9, 31, 47, 103, 183
– electronic 259
– in dye solutions 241, 251
Epilayers 41
Europium 9
Europium determination 97
Excitation
– laser 203
– pulsed 203
Excitation
– two-photon 63
Excitation avalanche 63
Excited state dynamics 143
Exciton 129, 273

Fluorescence 117, 137, 183
– enhancement 301
– H^{+} bombardment 215
– quenching 75
Fluorimetry 97
Frequency factor 149

Garnets 31
Glass 1
Glow curve 149

Hole burning 297

Impurities
– Mn^{5+} 177
– rare earth 297
Impurity spectra 339
Interionic distances 47
Intrachain order 117
Ionic binding 47

Kinetics order 149

Langmuir–Blott films 215
Laser excitation spectroscopy 47
Laser gain 203
Laser intensity 55
Lifetime 9
Luminescence
– center 317
– Gd^{3+} 103
– intraband 273
– near infrared (NIR) 177
– spectra 317
– time decay 289

Magnetic dipole 189
Mn^{5+} 177

Nanocrystalline silicon 279
Nanoparticles 215
Non-linear Stern–Volmer plots 75

One-dimensional compound 103
Ordered structure 41

Perrin model 163
Phonons
– local mode 289
– low energy 327
Phosphorescence 183
Photoconductivity 309
Photoluminescence 55, 241, 251, 279, 339
– Cr^{3+} 289
– decay 309
– near-infrared 41
– two-wavelength 235
Photophysics 143
Photosensitization 183
Polarization 163
Pressure 31

Quantum efficiency 55, 117
Quantum well heterostructures 55
Quantum wells
– multiple 235
Quartz 317
Quenching
– luminescence 235

Radiative ransport 259
Raman scattering
– electronic 125
– resonantly enhanced 125
Raman spectroscopy 301
Rare earth ions 19
Rare earth luminescence 189
Reabsorption 241, 251
Recombination 55
– nonradiative 235
Relaxation 163

Secondary emission 241, 251
Silica 279
Single crystal
– excited state 9
Solar concentrators 241, 251
Spectroscopy 327
– time-resolved 289
– vibronic 189
Spin–orbit coupling 31
Spontaneous emission
– amplified 203
Stochastic simulation 259
Surface states 215

Thermoluminescence 137, 149, 317
Thermostimulated currents 309
Transition metal ions
– 3d 339
Transition probabilities 189
Trap depth 149
Traps 55
– deep electron 55

Upconversion 327
UV–VIS absorption 117

Valence states 19
Vibronic coupling 129
Vibronic interactions 289

X-ray photoelectron spectroscopy 19

Journal of Luminescence 63 (1995) 354–355
North-Holland

JOURNAL OF
LUMINESCENCE

Materials index

α-tocopherol 75
Aluminum oxide 279
Argon 301

$Ba_2GdTaO_6:Ce^{3+}$ 125
$Ba_2TiO_4:Cr^{4+}$ 177
$Ba_2TiO_4:Mn^{5+}$ 177

$Ca_4CdO(BO_3)_3$ 103
Camphorquinone 183
CaS 19
CCl_4 9
CdS 215
Ce^{3+} 19, 125
Ce^{4+} 19
Coumarin 203
Cr^{4+} 177
Cr^{3+} 31
$Cr^{3+}:Tm^{3+}:YAG$ 31
C_{60} 301
$Cs_3Yb_2Cl_9:Tm^{3+}$ 327
$CsCaF_3$ 289
$CsCdCl_3Ni^{2+}$ 63
$CsCdF_3$ 289
CsCl 137, 273
Cu^+ 339

Dy^{3+} 103

EDTA 9
Eu^{3+} 19, 47
Eu^{2+} 19
Eu_2O_3 9
Europium 97

$Ga_{0.5}In_{0.5}P$ 41
GaAs/AlGaAs 235
Gadolinium 97
Gd_2O_3 9
Gd^{3+} 103
Glass 85

$Ho^{3+}:YLiF_4$ 297

$KMgF_3:Ni^{2+}$ 63
$KZnF_3:Ni^{2+}$ 63

Latex spheres 47
Lead oxide 279
$LiBaF_3$-Sm^{3+} 189
Lithium 155

$MgF_2:Yb^{2+}$ 223
MgTPP 163
Mn^{5+} 177
Mn^{2+} 103

$Na[EuEDTA(H_2O)_4]:Gd$ 9
Nd^{3+} 47
9,10-diphenylanthracene 259

1,3,3-trimethylspiro[indoline-2,3′[3H]naphth
–[2,1-b][1,4]oxazine] 183
Oxygen 155, 301

$PbI_2:Cu^+$ crystals 309
Poly(para-phenylene) 117
Porous silicon 279

Quartz 317

$RbCaF_3$ 289
$RbCdF_3$ 289
Rhodamine 590 9

Samarium 189
$Sc_2O_3:Ce^{3+}$ 125
Semiconductor 155
Silica 279
Siver surface
- rough 301
Si–C 155

Sm 137
SrS 19

Terbium 1
Thulium 85
Tm^{3+} 327
2,2′:6′,2″-terpyridine
– protonated form 143

Xylenol orange 9

Yb^{3+} 327
Ytterbium 1
– divalent 223

Zinc oxide 279